

REMARKS/ARGUMENTS

Claims 1-27 are pending in the application. Claims 1, 10, and 19 have been amended to expedite prosecution. Claims 28-30 have been cancelled. Reconsideration is respectfully requested. Applicants submit that the pending claims 1-27 are patentable over the art of record and allowance is respectfully requested of claims 1-27.

Applicants would like to thank Examiner Morrison for holding a telephone interview with their representative, Janaki K. Davda, on Thursday, June 14, 2007, at 3:00 p.m. EST. During the telephone interview, proposed claim amendments to claim 1 were discussed. No agreement was reached.

Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tandon (U.S. Patent No. 6,233,587) in view of Holenstein et al. (U.S. Pub. No. 2004/0133591) and further in view of Kleewein et al. (U.S. Patent No. 5,958,719). Applicants respectfully traverse.

Amended claim 1 describes registering said user-defined operation and Transaction Protocol Interfaces used by said user-defined operation with a database, wherein said user-defined operation enables a database operation to be extended with user-customizable features, and wherein said computer resource accessed by said user-defined operation is external to said database (e.g., Specification, page 3, lines 28-31; page 4, lines 13-16; page 5, line 29- page 30, line 2; page 7, lines 14-18; FIG. 2). Said database transaction is executed. Said database is enabled to operate as said Transaction Manager by means of said Transaction Protocol, wherein said Transaction Manager manages distributed transactions by coordinating decisions about commit or rollback of pending transactions and coordinating failure recovery. Said resource manager is accessed by said database operating as said Transaction Manager. Said user-defined operation is invoked as part of said database transaction, wherein said user-defined operation is invoked by user-defined query code external to said database (e.g., Specification, page 11, lines 1-2). With said database, it is recorded that said user-defined operation has been invoked to enable triggering said database to invoke said Transaction Protocol Interfaces during commit and rollback (e.g., Specification, page 11, lines 1-5). Said invoked and recorded user-defined operation is executed while said database transaction is executed. Said computer resource is

accessed in response to executing said invoked and recorded user-defined operation by said resource manager, thereby extending said database transaction. In response to performing a commit of said database transaction, coordinating a two phase commit of said database and of said computer resource accessed by said user-defined operation by said database invoking said Transaction Protocol Interfaces (e.g., Specification, page 11, lines 1-5). In response to performing a rollback of said database transaction, including said user-defined operation in said rollback by said database invoking said Transaction Protocol Interfaces to roll back said computer resource (e.g., Specification, page 11, lines 1-5).

Applicants respectfully submit that the cited references do not teach or suggest the subject matter of amended claims 1, 10, and 19. For example, the cited references do not teach or suggest registering said user-defined operation and Transaction Protocol Interfaces used by said user-defined operation with a database, wherein said user-defined operation enables a database operation to be extended with user-customizable features, and wherein said computer resource accessed by said user-defined operation is external to said database; invoking said user-defined operation as part of said database transaction, wherein said user-defined operation is invoked by user-defined query code external to said database; recording with said database that said user-defined operation has been invoked to enable triggering said database to invoke said Transaction Protocol Interfaces during commit and rollback; in response to performing a commit of said database transaction, coordinating a two phase commit of said computer resource accessed by said user-defined operation by said database invoking said Transaction Protocol Interfaces; and in response to performing a rollback of said database transaction, including said user-defined operation in said rollback by said database invoking said Transaction Protocol Interfaces to roll back said computer resource.

Instead, the Tandon patent describes that a transaction event occurs, a transaction type is identified, a personality module associated with the transaction type is identified, an action mapped to the transaction event by the personality module is determined, and the action is performed (FIG. 3). The Tandon patent does not address how a database handles commit and rollback of a database transaction and of a user-defined operation invoked by user-defined query code external to the database. Also, the Holenstein and Kleewein references do not cure the defects of the Tandon patent.

Thus, claims 1, 10, and 19 are not taught or suggested by the Tandon patent, the Holenstein patent application or the Kleewein patent, either alone or together.

Dependent claims 2-9, 11-18, and 20-27 incorporate the language of independent claims 1, 10, and 19 and add additional novel elements. Therefore, dependent claims 2-9, 11-18, and 20-27 are not taught or suggested by the Tandon patent or the Holenstein patent application, either alone or together, for at least the same reasons as were discussed with respect to claims 1, 10, and 19.

Conclusion

For all the above reasons, Applicants submit that the pending claims 1-27 are patentable over the art of record. Applicants have not added any claims. Nonetheless, should any additional fees be required, please charge Deposit Account No. 09-0460.

The attorney of record invites the Examiner to contact her at (310) 553-7973 if the Examiner believes such contact would advance the prosecution of the case.

Dated: June 14, 2007

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